Instruments and Experimental Techniques 1997 vol.40 N3, pages 429-431

An attachment for an optical spectrometer for measuring the concentration profile and coefficient of impurity distribution in a crystal

Kazakov B., Safiullin G., Latypov V., Yakovleva Z.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

An attachment for an optical spectrometer is described enabling automated measurements of the impurity distribution in a crystal. For analysis of the Nd3+ ion distribution over a LiYF4 crystal, it is shown that the attachment provides a high resolution when obtaining data on the optical quality of a crystal and the impurity concentration profile and reliably determines the impurity distribution coefficient. © 1997 MAEe cyrillic signK Наука/Interperiodica Publishing.